

**GOVERNMENT OF INDIA
WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION
LOK SABHA**

UNSTARRED QUESTION NO:3663

ANSWERED ON:23.03.2017

Contamination of Ground Water

Ajmal Maulana Badruddin; Ram Shri Janak; Venkatesh Babu Shri T.G.

Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION be pleased to state:

- (a) the separate permissible limits of chemicals/metals such as Fluoride, Aluminium, Nitrate, Arsenic, Lead, Cadmium, Chromium etc. in the ground water as fixed by the World Health Organisation;
- (b) whether the Government is aware that the ground water in the country including North Eastern Region and Assam is highly contaminated with toxic pollutants and said chemicals/metals and if so, the details and the present status thereof, State/UT-wise;
- (c) whether any study has been conducted on its impact on the health of people and drinking water supply in the country and if so, the details thereof and the follow up action taken thereon;
- (d) the details of the steps taken along with the ongoing schemes/projects/ programmes being implemented to tackle the situation and improve/recharge ground water level including the funds allocated/ released/spent for the purpose during the last three years, State/UT-wise; and
- (e) the future plan of the Government to improve the situation?

Answer

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION
(DR. SANJEEV KUMAR BALYAN)

(a) As per the World Health Organisation (WHO) document 'Guidelines for drinking water quality, Fourth edition' published in 2011, the WHO limits for the different chemicals in drinking water are as follows:

S.No. Contaminant WHO limits (in mg/l)

1 Fluoride 1.5

2 Aluminium No specific health based guideline

3 Nitrate 50

4 Arsenic 0.01

5 Lead 0.01

6 Cadmium 0.003

7 Chromium 0.05

(b) The surveys and the ground water quality studies carried out by Central Ground Water Board (CGWB) and State departments have shown the sporadic occurrence of contaminants like Arsenic, Fluoride, Nitrate, Lead etc. in ground water above the permissible limits prescribed by Bureau of Indian Standards (BIS). The names of the districts (including that of North East Region and Assam), which are partly affected by different contaminants in ground water are given at Annexure-I.

(c) Various studies on impact on health of the above chemicals have been undertaken/conducted by academic institutes, research organizations, think tanks etc., the reports of which are available in public domain.

(d) & (e) Steps taken by the Government to tackle the situation of ground water contamination includes:

i. Results of the chemical analysis of ground water are shared with concerned State agencies for awareness and intensive monitoring and remediation for drinking water use.

ii. Options such as surface water & ground water based piped water supply schemes, tapping deeper aquifer in case of Arsenic contaminated alluvial areas and ex-situ removal plants for Fluoride and Arsenic have been adopted by various States to deal with the menace of Arsenic and Fluoride contamination in ground water.

iii. Awareness generation programs in the Country on preventing ground water pollution and use of contaminated water, rain water harvesting and artificial recharge to ground water.

iv. Rural drinking water supply is a state subject. Government of India through Ministry of Drinking Water & Sanitation (MoDWS) supplements the efforts of the States by providing them with technical and financial assistance through the centrally sponsored National Rural Drinking Water Programme (NRDWP) for improving the coverage of clean drinking water to rural population. Up to 10% of National Rural Drinking Water Programme (NRDWP) funds allocated to States could be utilized for sustainability of drinking water sources through artificial recharge of ground water and other methods. State/ UT wise status of fund allotted, released and expenditure, under NRDWP, for the last 3 years i.e., 2013-14, 2014-15, 2015-16 and during 2016-17 is given at Annexure-II.

v. CGWB carries out exploratory drilling to delineate contaminant free aquifer zones and successful exploratory wells are handed over to the concerned agencies in the States for utilization by them.

State/ UT-wise details of expenditure incurred under Natural Resource management, under MGNREGA are given at Annexure-III.

Further, steps taken by the Government for conservation of surface and ground water are available at the following URL http://mowr.gov.in/writereaddata/GW_Depletion.pdf.

ANNEXURE - I

Annexure referred in reply to Lok Sabha Unstarred Q.No. 3663 for reply on 23.03.2017 regarding "Contamination of Ground Water"

S.No. State/ UT Salinity

(EC above 3000 micro mhos/ cm)

(EC : Electrical Conductivity) Fluoride

(above 1.5 mg/l) Nitrate

(above 45 mg/l) Arsenic

(above 0.01 mg/l) Iron

(above 1mg/l) Heavy metals:

Lead

(above 0.01 mg/l)

Cadmium

(above 0.003 mg/l)

Chromium

(above 0.05 mg/l)

1 Andhra Pradesh Srikakulam, Visakhapatnam, East-Godavari, West-Godavari Krishna, Guntur,

Prakasam, Nellore, Kadapa,

Kurnool, Ananthapur, Visakhapatnam, West-Godavari Krishna, Guntur, Prakasam, Nellore, Chittoor

Kadapa, Kurnool, Ananthapur, Srikakulam Srikakulam,

Vizianagaram,

Visakhapatnam, East-Godavari, West-Godavari Krishna, Guntur, Prakasam, Nellore,

Chittoor Kadapa,

Kurnool, Ananthapur, Guntur, Kurnool, Nellore Vishakhapatnam Krishna, Guntur,

Nellore, Kurnool,

Chittoor, Cuddapah,

2 Telangana Adilabad, Nizamabad, Karimnagar, Warangal Khammam, Medak, Mehboob Nagar, Nalgonda, Adilabad, Karimnagar,

Khammam, Warangal, Mahabubnagar, Medak, Nalgonda, Rangareddy, Nizamabad Adilabad, Nizamabad, Karimnagar, Warangal

Khammam, Hyderabad, Mahabubnagar, Medak, Nalgonda, Rangareddy, Nalgonda,

Adilabad, Hyderabad, Karimnagar, Mahabubnagar, Medak, Nalgonda, Nizamabad, Ranga Reddy Lead : Rangareddy, Nalgonda

Cadmium: Rangareddy

Chromium: Rangareddy

3 Assam Goalpara, Kamrup, KarbiAnglong, Naugaon, Golaghat, Karimganj

Sivsagar, Jorhat, Golaghat, Sonitpur, Lakhimpur, Dhemaji, Hailakandi, Karimganj, Cachar, Barpeta, Bongaigaon, Goalpara, Dhubri,

Nalbari, Nagaon, Morigaon, Kamrup, Darrang & Baksha Cachar, Darrang, Dhemaji, Dhubri, Goalpara, Golaghat, Hailakandi, Jorhat,

Kamrup, KarbiAnglong, Karimganj, Kokrajhar, Lakhimpur, Morigaon, Nagaon, Nalbari, Sibsagar, Sonitpur

4 Arunachal Pradesh Changlang, East Siang, Lohit, Papumpare

5 Bihar Aurangabad, Banka, Bhagalpur, Gaya, Jamui, Kaimur(Bhabua), Munger, Nawada, Rohtas, Jahanabad, Lakhisarai,

Sheikhpura, Nalanda Aurangabad, Banka, Bhagalpur, Bhojpur, Darbhanga, Kaimur(Bhabua), Patna, Rohtas, Saran, Siwan

Begusarai, Bhagalpur, Bhojpur, Buxar, Darbhanga, Katihar, Khagaria, Kishanganj, Lakhisarai, Munger, Patna, Purnea, Samastipur,

Saran, Vaishali

E.Champaran, Gopalganj, Lohardaga, Madhepura,

Muzaffarpur

Saharsa, Siwan, W Champaran Aurangabad, Begusarai, Bhojpur, Buxar, East Champaran, Gopalganj, Katihar, Khagaria,

Kishanganj, Lakhisarai, Madhepura, Muzaffarpur, Nawada, Rohtas, Saharsa, Samastipur, Siwan, Supaul, West Champaran

6 Chhattisgarh Bastar, Balod, Balrampur, Bemetra, Bijapur, Durg, Kanker, Kondagaon, Korba, Koriya, Raigarh, Surajpur, Surguja

Bastar, Bilaspur, Dantewada, Dhamtari, Jashpur, Kanker, Kawardha, Korba, Mahasamund, Raigarh, Raipur, Rajnandgaon

Rajnandgaon Bastar, Dantewada, Kanker, Koriya, Lead: Korba

Cadmium: Korba

Chromium: Korba

7 Delhi New Delhi, North, South, East, West, North West, South West East Delhi, New Delhi, North West Delhi, South Delhi, South

West Delhi, North Delhi, West Delhi

East Delhi, Central Delhi, New Delhi, North Delhi, North West Delhi, South Delhi, South West Delhi, West Delhi East, North east Lead

: Along Najafgarh drain in North, West and South-west districts

Cadmium : Southwest

Chromium : Northwest, South, New Delhi, East

8 Goa North Goa, South Goa

9 Gujarat Ahmedabad, Amreli, Anand, Banaskantha, Bharuch, Bhavnagar, Dahod, Jamnagar, Junagadh, Kachchh, Kheda,

Mahesana, Navsari, Patan, Porbandar, Rajkot, Sabarkantha, Surat, Surendranagar, Vadodara, Narmada Ahmedabad, Amreli,

Anand, Banaskantha, Bharuch, Bhavnagar, Dahod, Gandhinagar, Jamnagar, Junagadh, Kachchh, Mehesana, Panchmahals, Patan,

Porbandar, Rajkot, Sabarkantha, Surendranagar, Vadodara

Ahmedabad, Amreli, Anand, Banaskantha, Bharuch, Bhavnagar, Dahod, Jamnagar, Junagadh, Kachchh, Kheda, Mehesana,

Narmada, Navsari, Panchmahals, Patan, Porbandar, Rajkot, Sabarkantha, Surat, Surendranagar, Vadodara Amreli, Anand, Bharuch,

Bhavnagar, Dahod, Gandhinagar, Kachchh, Mehesana, Patan, Rajkot, Surendranagar, Vadodara Ahmedabad, Banaskantha,

Bhavnagar, Kachchh, Mehesana, Narmada,

10 Haryana Ambala, Bhiwani, Faridabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Mohendragarh, Panipat, Rewari, Rohtak,

Sirsa, Sonapat Ambala, Bhiwani, Fatehabad, Faridabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendragarh,

Panchkula, Palwal, Panipat, Rewari, Rohtak, Sirsa, Sonapat, Yamuna Nagar

Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendragarh, Panchkula,

Panipat, Rewari, Rohtak, Sirsa, Sonipat, Yamuna Nagar Ambala, Bhiwani, Faridabad, Fatehabad, Hissar, Jhajjar, Jind, Karnal, Panipat, Rohtak, Sirsa, Sonapat, Yamunanagar, Mahendergarh, Palwal Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendargarh, Panipat, Rohtak, Sirsa, Sonipat, Yamuna Nagar Lead: Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Mahendragarh, Panchkula, Panipat, Rewari, Rohtak, Sirsa, Sonapat. Cadmium: Bhiwani, Gurgaon, Jhajjar, Jind, Kaithal, Rewari, Rohtak.

Chromium: Fatehabad

11 Himachal Pradesh Una, Solan, Hamirpur, Kangra, Mandi, Kullu Kangra

12 Jammu & Kashmir Jammu, Kathua Jammu, Kathua, Anantnag, Kupwara Jammu, Kathua, Rajouri Baramulla, Budgam, Kathua, Kupwara, Pulwama, Srinagar Lead: Jammu (Gangyal), Bari Brahma, Kathua

Cadmium: Kathua

13 Jharkhand Bokaro, Dhanbad, Garhwa, Giridih, Godda, Gumla, Koderma, Pakur Palamu, Ranchi, , Sahebganj, Khunti

Chatra, Garhwa, Godda, Gumla, Lohardaga, Pakur, Palamu, PaschimiSinghbhum, PurbiSinghbhum, Ranchi, Sahibganj Sahebganj Chatra, Deoghar, East Singhbhum, Giridih, Ranchi, West Singhbhum Lead: Jamshedpur

14 Karnataka Bagalkote, Bangalore-Rural, Bangalore-Urban, Belgaum, Bellary, Bijapur, Chamarajnagara, Chikballapur, Chikmagalur, Chitradurga, Dakshina Kannada, Davanagere, Dharwad, Gadag, Gulbarga, Hassan, Haveri, Kodagu/ Coorg, Kolar, Koppal, Mandya, Mysore, Raichur, Ramanagara, Shimoga, Tumkur, Udupi, Uttara Kannada, Yadgir Bagalkot, Bangalore(Rural), Bangalore(Urban),Belgaum, Bellary, Bidar, Bijapur, Chikaballapur Chamarajanagar, Chikmagalur, Chitradurga, Davanagere, Dharwad, Dakshina Kannada, Gadag, Gulbarga, Hassan, Haveri, Kolar, Koppal, Mandya, Mysore, Raichur, Ramnagara , Shimoga, Tumkur, Yadgir, Uttara Kannada, Udupi

Bagalkot, , Bangalore, Belgaum, Bellary, Bidar, Bijapur, Chikmagalur, Chitradurga, Davanagere, Dharwad, Gadag, Gulbarga, Hassan, Haveri, Kodagu, Kolar, Koppal, Mandya, Raichur. Shimoga, Udupi, Uttar Kannada Raichur and Yadgir district Bagalkot, Bangalore, Belgaum, Bellary, Bidar, Bijapur, Chikmagalur, Chitradurga, Dakshina Kannada, Davanagere, Gulbarga, Hassan, Haveri, Kodagu, Kolar, Koppal, Mysore, Raichur, Shimoga, Tumkur, Udupi, Uttar Kannada

15 Kerala Trivandrum, Kollam, Kottayam, Ernakulam Palakkad, Alappuzha, Idukki, Ernakulam, Thiruvananthapuram

Alappuzha, Idukki, Kollam, Kottayam, Kozhikode, Malappuram, Palakkad, Pathanamthitta, Thiruvananthapuram, Thrissur, Wayanad Alappuzha, Ernakulam, Idukki, Kannur, Kasaragod, Kollam, Kottayam, Kozhikode, Malappuram, Palakkad, Pathanamthitta, Quilon, Thiruvananthapuram, Thrissur, Wayanad Lead: Ernakulam , Kollam

Chromium: Kollam

16 Madhya Pradesh Balaghat, Bhind, Chhatarpur, Gwalior, Indore, Jhabua, Khargone, Morena, Neemuch, Ratlam, Rewa, Satna, Sehore, Sheopur, Shivpuri, Ujjain Alirajpur, Balaghat, Barwani, Betul, Bhind, Bhopal, Chhatarpur, Chhindwara, Datia, Dewas, Dhar, Dindori, Guna, Gwalior, Harda, Jabalpur, Jhabua, Khargon, Mandla, Mandsaur, Morena, Narsinhpur, Neemuch, Panna, Raisen, Rajgarh, Ratlam, Sagar, Satna, Sehore, Seoni, Shahdol, Shajapur, Sheopur, Sidhi, Shivpuri, Singrauli, Ujjain, Vidisha

Alirajpur, Anuppur, Ashok Nagar, Balaghat, Barwani, Betul, Bhind, Bhopal, Burhanpur, Chhatarpur, Chhindwara, Damoh, Datia, Dewas, Dhar, , Dindori, Guna, Gwalior, Harda, Hoshangabad, Indore, Jabalpur, Jhabua, Khandwa, Khargon, Katni, Mandla, Mandsaur, Morena, Narsimhapur, Neemuch, Panna, Raisen, Rajgarh, Ratlam, Rewa, Sagar, Satna, Sehore, Seoni, Shahdol, Shajapur, Sheopur, Shivpuri, Sidhi, Singrauli, Tikamgarh, Ujjain, Umariya, Vidisha Betul, Burhanpur, Chhindwara, Dhar, Khandwa, Mandsaur, Neemuch, Umariya Balaghat, Barwani, Betul, Bhind, Bhopal, Chhatarpur, Chhindwara, Damoh, Datia, Dewas, Dhar, Dindori, Guna, Gwalior, Hoshangabad, Indore, Jabalpur, Jhabua, Khandwa, Katni, Mandla, Mandsaur, Narsinghpur, Neemuch, Panna, Raisen, Rajgarh, Ratlam, Rewa, Sagar, Satna, Sehore, Seoni, Shahdol, Shajapur, Shivpuri, Sidhi, Tikamgarh, Ujjain, Umariya, Vidisha, East Nimar Lead: Balaghat, Barwani, Damoh, Datia, Dewas, Dhar, Dindori, Guna, Gwalior, Raisen, Rajgarh, Satna, Sehore, Shajapur, Shivpuri, Vidisha

17 Maharashtra Ahmednagar, Akola, Amravati, Aurangabad, Beed, Bhandara, Buldhana, Chandrapur, Dhule, Jalgaon, Jalna, Nagpur, Nasik, Pune, Raigad, Sangli, Satara, Solapur, Thane, Yavatmal Ahmednagar, Beed, Chandrapur, Bhandara, Dhule, Gadchiroli, Gondia, Jalna, Nagpur, Nanded, Ratnagiri, Sangli, Satara, Sindhudurg, Solapur, Wardha, Yavatmal

Ahmednagar, Akola, Amravati, Aurangabad, Beed, Bhandara, Buldhana, Chandrapur, Dhule, Gadchiroli, Gondia, Hingoli, Jalgaon, Jalna, Kolhapur, Latur, Mumbai, Nagpur, Nanded, Nandurbar, Nasik, Osmanabad, Parbhani, Pune, Sangli, Satara, Solapur, Wardha, Washim, Yavatmal Ahmednagar, Amravati, Beed, Buldhana, Chandrapur, Dhule, Gadchiroli, Jalna, Kolhapur, Latur, Nandurbar, Nashik, Osmanabad, Parbhani, Ratnagiri, Satara, Thane, Wardha, Washim, Yavatmal Lead: Ahmed Nagar, Akola, Aurangabad, Beed, Buldhana, Dhule, Gadchiroli, Jalna, Kolhapur, Latur, Nagpur, Nanded, Osmanabad, Parbhani, Pune, Sangli, Wardha, Washim, Yavatmal

18 Manipur Bishnupur, Thoubal Bishnupur, Thoubal

19 Meghalaya East Garo Hills, East Khasi Hills, Jaintia Hills

20 Nagaland Dimapur

21 Odisha Balasore, Bhadrak, Ganjam, Jagatsingpur, Jajpur, Kendrapara, Puri Angul, Balasore, Bhadrak, Bargarh Bolangir, Boudh, Cuttack, Deogarh Dhenkanal, Jajpur, Kandhamal, Keonjhar, Khurda, Mayurbhanj, Nayagarh, Nawapara, Ganjam, Jagatsinghpur, Kalahandi, Koraput, Puri, Rayagada, Sambalpur, Sonepur, Sundargarh

Angul, Balasore, Bargarh, Bhadrak, Bolangir, Boudh, Cuttack, Deogarh, Dhenkanal, Gajapati, Ganjam, J. Singhpur, Jajpur, Jharsuguda, Kalahandi, Kendrapara, Keonjhar, Khurda, Koraput, Malkangiri, Mayurbhanj, Nawapada, Nayagarh, Phulbani, Puri, Sambalpur, Sundergarh, Sonpur Gajapati Balasore, Bargarh, Bhadrak, Cuttack, Deogarh, J. Singhpur, Jajpur, Jharsuguda, Kalahandi, Kandmahal, Keonjhar, Kendrapara, Khurda, Koraput, Mayurbhanj, Nayagarh, Puri, Rayagada, Sambalpur, Sundergarh, Sonpur Chromium (Hexavalent) - Sukinda valley in Sukinda block of Jajpur District

22 Punjab Bhatinda, Faridkot, Ferozpur, Gurudaspur, Mansa, Moga, Muktsar Patiala, Sangrur Amritsar, Barnala, Bhatinda, Fazilka, Faridkot, Fatehgarh Sahib, Firozpur, Gurdaspur, Jalandhar, Ludhiana, Mansa, Moga, Muktsar, Pathankot, Patiala, Ropar, Sangrur, SAS Nagar (Mohali), Tarn-Taran

Amritsar, Barnala, Bhatinda, Faridkot, Fatehgarh Sahib, Firozpur, Gurdaspur, Hoshiarpur, Jalandhar, Kapurthala, Ludhiana, Mansa, Moga, Muktsar, Nawan Shahr, Patiala, Ropar, Rupnagar, Sangrur, Tarn-Taran Mansa, Amritsar, Gurdaspur, Hoshiarpur, Kapurthala, Ropar, Faridkot, Nawashahr, Sangrur, Tarn Taran Bhatinda, Faridkot, Fatehgarh Sahib, Firozpur, Gurdaspur, Hoshiarpur, Mansa,

Rupnagar, Sangrur Lead: Amritsar, Bathinda, Ferozepur, Gurdaspur, Muktsar, Ropar
 Cadmium: Fatehgarh Sahib, Ludhiana, Nawansahar, Patiala, Ropar, Sangrur, Sasnagar, Tarantaran
 Chromium: Amritsar, Bathinda, Gurdaspur, Kapurthala, Mansa, Ropar, Barnala, Sangrur, Sasnagar, Tarantaran
 23 Rajasthan Ajmer, Alwar, Baran, Barmer, Bharatpur, Bhilwara, Bikaner, Bundi, Chittorgarh, Churu, Dausa, Dhaulpur, Ganganagar, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalawar, Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Rajasamand, Sawai-Madhopur, Sikar, Sirohi, Tonk, Udaipur Ajmer, Alwar, Banswara, Barmer, Bharatpur, Baran, Bhilwara, Bikaner, Bundi, Chittaurgarh, Churu, Dausa, Dhaulpur, Dungarpur, Ganganagar, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalawar Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Pratapgarh, Rajsamand, Sirohi, Sikar, Sawai Madhopur, Tonk, Udaipur
 Ajmer, Alwar, Banswara, Baran, Barmer, Bundi, Bharatpur, Bhilwara, Bikaner, Chittaurgarh, Churu, Dausa, Dhaulpur, Dungarpur, Ganganagar, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalawar, Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Partapgarh, Rajasamand, Sirohi, Sikar, Sawai Madhopur, Tonk, Udaipur Ganganagar Ajmer, Alwar, Banswara, Baran, Barmer, Bharatpur, Bhilwara, Bikaner, Bundi, Chittaurgarh, Churu, Dausa, Dhaulpur, Dungarpur, Ganganagar, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalawar, Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Pratapgarh, Rajsamand, Sikar, Sawai Madhopur, Sirohi, Tonk, Udaipur
 Lead: Jhunjhunu Dist (Khetri Copper Deposit), Pali, Jaipur (Sambhar Lake, Sanganer)
 24 Tamil Nadu Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindigul, Kancheepuram, Karur, Nagapattinam, Namakkal, Perambalur, Pudukkottai, Ramnathapuram, Salem, Sivaganga, Thanjavur, Theni, Thiruvallur, Tirunelveli, Trichchirappalli, Tuticorin, Vellore, Villupuram, Virudhunagar, Coimbatore, Dharmapuri, Dindigul, Erode, Karur, Kancheepuram, Krishnagiri, Namakkal, Madurai, Pudukkottai, Ramanathanpuram, Salem, Sivagangai, Theni, Thiruvannamalai, Tiruchirappalli,
 Tirunelveli, Tirupur Vellore, Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindigul, Erode, Kancheepuram, Kanyakumari, Karur, Madurai, Namakkal, Nilgiris, Perambalur, Pudukkottai, Ramanathanpuram, Salem, Sivagangai, Theni, Thiruvannamalai, Thanjavur, Tirunelveli, Thiruvallur, Trichy, Tuticorin, Vellore, Villupuram, Virudhunagar Ariyalur
 Cuddalore, Nagapattinam,
 Ramnathapuram, Tiruvallur, Tirunelveli, Thiruvallur, Trichchirappalli, Tuticorin Namakkal, Salem Lead : Dindigul, Tiruvallur, Kancheepuram
 Cadmium : Tiruvallur
 Chromium: Cuddalore, Dindigul, Erode, Kanchipuram, Tiruvallur
 25 Tripura Dhalai, North Tripura, South Tripura, West Tripura,
 26 Uttar Pradesh Agra, Aligarh, Firozabad, Hamirpur, Kashganj, Kanpur Nagar, Mathura, Rae Bareilly, Unnao Agra, Aligarh, Allahabad, Auraiya, Banda, Bulandshahar, Etah, Etawah, Farrukhabad, Fatehpur, Firozabad, G B Nagar, Ghaziabad, Hathras, Jaunpur, Kannauj, Kanpur Nagar, Kasganj (Kashiram Nagar), Lalitpur, Mahoba, Mainpuri, Mathura, Maunath Bhanjan, Pratapgarh, Rai Bareilly, Shajahanpur, Sonbhadra, Sultanpur, Varanasi and Unnao Agra, Aligarh, Allahabad, Ambedkar Nagar, Auraiya, Azamgarh, Badaun, Baghpat, Balrampur, Banda, Barabanki, Bareilly, Basti, Bijnor, Bulandshahr, Chitrakoot, Etah, Fatehpur, Firozabad, GB Nagar, Ghaziabad, Ghazipur, Hamirpur, Hardoi, Hathras, Jaunpur, Jhansi, Kannauj, Kanpur Dehat, Lakhimpur, Mahoba, Mathura, Meerut, Mau, Moradabad, Muzaffarnagar, Mirzapur, Raebareilly, Sant Ravidas Nagar, Shajahanpur, Sitapur, Sonbhadra, Sultanpur, Shravasti, Siddharth Nagar, Unnao Bahraich, Balia, Balrampur,
 Bareilly, Basti, Bijnor, Chandauli, Ghazipur, Gonda, Gorakhpur, Lakhimpur Kheri, Meerut, Mirzapur, Muradabad, Rai Bareilly, Sant Kabir Nagar, Shajahanpur, Siddharthnagar, Sant Ravidas Nagar, Unnao, Azamgarh, Bahraich, Badaun, Deoria, Jhansi, Kausambi, Kushinagar, Pilibhit, Maunath Bhanjan,
 Azamgarh, Ballia, Balrampur, Etawah, Fatehpur, Gazipur, Gonda, Hardoi, Kanpur Dehat, Kanpur Nagar, Lakhimpur, Lalitpur, Mau, Siddharthnagar, Unnao Lead: Muzzafar Nagar, Mathura, Moradabad, Allahabad, Bhadohi, Ghaziabad, Jaunpur, Kanpur, Raebareilly, Sonbhadra
 Cadmium: Varanasi city, Unnao
 Chromium : Kashi Vidyapeeth, Varanasi, Kanpur, Unnao
 27 Uttarakhand Dehradun, Haridwar, Udham Singh Nagar
 28 West Bengal Howrah, N 24 Parganas, Purba Medinipur, S 24 Parganas Bankura, Birbhum, Dakshin Dinajpur, Malda, Purulia, Uttardinajpur, South 24 Parganas
 Bankura, Bardhaman Bardhaman, Hooghly, Howrah, Malda, Murshidabad, Nadia, N-24 Parganas, S- 24 Parganas, Koch Bihar
 Bankura, Bardhaman, Birbhum, Dakshin Dinajpur, E. Midnapur, Howrah, Hugli, Jalpaiguri, Kolkatta, Murshidabad, N-24 Parganas, Nadia, S-24 Parganas, Uttardinajpur, West Midnapur Lead: Malda, Murshidabad, Nadia, N-24 Pargana, S-24 Pargana, Kolkata
 Cadmium: N-24 Parganas, S-24 Parganas
 Chromium: N-24 Parganas, Murshidabad
 29 Andaman & Nicobar Andaman
 30 Daman & Diu Diu

ANNEXURE - II

Annexure referred in reply to Lok Sabha Unstarred Q.No. 3663 for reply on 23.03.2017 regarding "Contamination of Ground Water"

State/UT-wise status of fund allotted, released and expenditure under NRDWP for the year 2013-14, 2014-15, 2015-16 and 2016-17
 State-wise Financial Status under NRDWP
 Fin. Year 2013-14 Fin. Year 2014-15 Fin. Year 2015-16 Fin. Year 2016-17 as on 14.3.2017
 S.No.
 State Opening Balance as on 1.4.2013 Allocation Release Exp. Opening Balance as on 1.4.2014 Allocation Release Exp. Opening Balance as on 1.4.2015 Allocation Release Exp. Opening Balance as on 1.4.2016 Allocation Release upto 14/03/2017 Exp.
 1 Andaman and Nicobar 0.78 1.04 0.09 0.64 0.28 0.86 0.81 0.43 0.67 0.38 0.16 0 0.83 0.45 0.22 0
 2 Andhra Pradesh 113.62 635.44 631.52 662.4 82.74 372.43 377.78 427.08 33.44 156.69 170.05 190.6 14.51 181.02 172.56 121.02

3 Arunachal Pradesh 17.99 218.23 237.32 230.97 25.77 87.21 109.83 119.5 16.09 58.08 65.4 66.23 15.26 101.39 100.5 51.37
4 Assam 199.82 470 524.97 635.18 92.7 501.1 585.32 586.88 92.64 268.26 284.11 216.2 160.83 402.15 346.5 152.38
5 Bihar 217.82 432.38 348.94 307.43 259.33 441.07 399.11 381.9 276.54 229.6 202.73 295.38 183.89 314.97 299.11 345.15
6 Chattisgarh 67.61 136.13 135.2 172.38 31.56 159.08 150.74 173.08 12.05 63.69 60.83 64.64 8.24 70.65 65.49 50.27
7 Goa 5.95 5.5 0 2.22 3.73 4.61 0 0 3.73 2.08 1.66 0 5.39 2.44 1.19 3.35
8 Gujarat 247.13 533.73 515.07 627.95 134.24 509.48 405.58 491.44 48.38 240.13 238.91 274.78 12.5 281.14 276.42 197.56
9 Haryana 85.59 229.46 229.52 301.15 13.96 218.09 277.98 228.82 63.13 97.65 122.65 150.74 35.19 114.71 111.01 57.76
10 Himachal Pradesh 67.78 150.51 130.81 153.33 45.27 131.84 120.89 120.18 45.97 65.2 64.38 69.88 40.48 69.65 63.31 55.98
11 Jammu and Kashmir 141.95 462.43 414.82 499.79 59.11 461.33 474.41 458.03 75.49 199.4 192.12 222.16 45.44 233.29 225.14 100.99
12 Jharkhand 122.36 172.85 253.28 277.96 102.26 169.86 175.18 206.88 89.26 126.85 132.09 133.7 99.65 115.86 98.13 125.47
13 Karnataka 256.64 868.76 897.29 928.81 237.76 623.2 563.91 622.37 179.31 307.62 278.08 366.68 90.71 360.07 331.34 174.52
14 Kerala 93.31 155.58 212.04 265.1 40.87 115.59 124.1 131.86 33.11 52.78 48.05 64.45 16.71 62.54 57.22 29.97
15 Madhya Pradesh 143 404.81 474.95 483.98 133.97 397.18 440.18 399.94 174.38 181.76 193.73 387.62 8.93 213.87 199.96 149.17
16 Maharashtra 553.97 788.48 690.27 657.46 587.39 780.06 748.23 901.96 433.66 344.16 330.88 584 180.69 413.57 380.04 279.46
17 Manipur 28.66 58.75 55.3 57.17 27.09 90.35 88.54 92.25 23.38 28.98 27.92 43.44 7.87 41.83 40.61 18.66
18 Meghalaya 34.12 92.18 103.4 114.81 22.89 59.61 69.5 81.02 11.6 30.52 31.24 30.92 12.2 42.02 40.42 25.85
19 Mizoram 24.78 38.41 44.89 33.37 36.3 42.43 34.5 39.81 30.99 17.71 17.32 23.16 25.15 25.33 24.49 9.14
20 Nagaland 3.69 61.31 61.07 52.38 12.38 108.19 101.44 86.45 27.37 39.27 38.53 61.9 4.25 37.93 36.84 14.28
21 Odisha 67.61 244.25 317.07 288.08 106.02 205.69 230.67 257.29 87.41 96.9 103.19 150.64 39.96 114.99 106.73 69.74
22 Puducherry 0.88 1.59 0.06 0 0.94 1.62 0 0 0.98 0.74 0 0 0.98 0.86 0.29 0
23 Punjab 26.04 96.89 147.95 159.05 14.94 93.88 97.38 90.23 22.1 39.77 42.79 36.57 28.31 46.02 45.79 48.15
24 Rajasthan 389.85 1231.05 1332.49 1572.96 199.22 1194.46 1304.64 1386.79 117.07 547.17 526.75 480.21 163.61 1114.56 1063.56 293.59
25 Sikkim 44.95 16.88 26.56 71.25 1.31 30.38 31.7 32.03 0.98 10.64 12.05 12.49 0.54 14.77 14.42 5.92
26 Tamil Nadu 185.44 304.63 387.11 527.57 44.97 367.36 382.46 432.39 5.48 169.5 182.35 164.85 27.49 157.6 155.19 129.51
27 Telangana - - - - 0 200.65 212.24 189.25 22.99 88.77 97.71 106.42 16.72 117.03 113.14 93.65
28 Tripura 6.27 59.29 89.93 94.19 3.4 62.06 68.31 64.81 8.18 28.07 31.68 39.97 0.8 39.48 38.26 24.41
29 Uttar Pradesh 539.18 923.18 804.92 858.5 485.61 1006.43 1073.22 1146.18 412.65 477.69 490.31 690.46 272.38 653.77 575.24 283.1
30 Uttarakhand 174.27 159.66 87.61 138.59 124.32 135.01 111.48 152.94 82.87 63.57 60.06 98.91 44.01 90.87 68.33 58.03
31 West Bengal 398.59 490.63 485.83 757.11 143.68 436.53 431.09 480.72 96.94 199.68 216.85 288.75 25.49 438.91 437.55 349.11
Total 4259.65 9444.03 9640.28 10931.78 3074.01 9007.64 9191.22 9782.51 2528.84 4233.31 4264.58 5315.75 1589.01 5873.74 5489 3317.56

ANNEXURE - III

Annexure referred in reply to Lok Sabha Unstarred Q.No. 3663 for reply on 23.03.2017 regarding "Contamination of Ground Water"

S.No. State Public Works Relating To Natural Resources Management

Expenditure on NRM Works (Takenup)

(Rs. in lakhs)

2013-14 2014-15 2015-16 2016-17

as on 25/11/2016

1 Andaman And Nicobar 0.00 0.00 0.00 0.00
2 Andhra Pradesh 56003.81 83119.04 219432.52 189981.93
3 Arunachal Pradesh 98.22 399.54 1868.42 2557.24
4 Assam 9758.91 11433.52 18665.37 38223.79
5 Bihar 40169.25 33835.59 61890.80 57977.07
6 Chhattisgarh 37116.44 65617.32 67409.62 114121.39
7 Goa 43.99 141.35 102.46 61.69
8 Gujarat 8966.14 11585.08 21996.53 27798.67
9 Haryana 13161.48 8310.48 8366.58 12505.24
10 Himachal Pradesh 25923.62 19775.22 17392.75 14260.47
11 Jammu And Kashmir 8744.96 7219.05 19881.00 10137.48
12 Jharkhand 26845.20 33504.56 47635.36 64774.43
13 Karnataka 63559.02 53394.09 66917.40 73188.61
14 Kerala 63726.45 96234.91 85322.61 87527.47
15 Lakshadweep 21.34 16.26 5.12 0.00
16 Madhya Pradesh 62363.71 71975.88 63030.27 77220.00
17 Maharashtra 23765.64 58760.03 71854.35 57118.64
18 Manipur 1774.11 6857.71 8190.30 14817.83
19 Meghalaya 2876.07 5535.52 5948.88 15608.11
20 Mizoram 1301.22 5271.73 18758.93 3214.07

21 Nagaland 1645.17 1002.40 5017.35 13390.84
22 Odisha 20831.79 43189.39 78241.99 79490.56
23 Puducherry 740.40 465.00 804.47 759.38
24 Punjab 6644.96 9063.86 13969.24 20517.96
25 Rajasthan 60465.18 127798.51 162566.90 165193.72
26 Sikkim 2717.34 2000.17 3013.84 3563.56
27 Tamil Nadu 273071.92 247359.05 383893.37 299741.51
28 Telangana 75.23 41262.74 89834.18 60227.42
29 Tripura 45119.33 48183.66 75173.24 51531.31
30 Uttar Pradesh 41211.54 57814.94 122144.42 188714.19
31 Uttarakhand 9293.70 8320.78 13238.56 15272.69
32 West Bengal 103911.95 165325.65 213617.76 227503.12
Total 1011948.09 1324773.03 1966184.59 1987000.39